



**CADMIUM SULFIDE
PHOTOCELL**

FC model **Z-4** Deluxe **FOTO-METER**

The Model Z-4 is a super-precision exposure meter designed to fill the requirements of the unusual and most critical types of photography and measure light values far below those of the average exposure meter, providing the photographer with precision exposure control for both color and black and white. It provides accurate meter readings from the camera position of an area as small as 2 degrees of the entire subject, making possible the most critical analysis of light values.

The Model Z-4 reads directly in Ft. Lamberts or meter readings may be converted on external calibration dials to settings for *all* types of cameras and films. The Model Z-4 measures to a minimum of 0.1 Ft. Lamberts (0.03 candles per square foot).

When looking into the Model Z-4 Foto-Meter the photographer sees: (1) his scene or subject, optically clear from two feet to infinity, (2) a black spot covering a small portion of the subject (this spot is the photocell), (3) the light meter reading. The reading indicated is measured from the area covered by the small black spot.

FC FOTOMATIC CORPORATION
3141 W. 10TH STREET, INDIANAPOLIS 22, INDIANA

LIST PRICE \$104.95
(including genuine leather carrying case)

SPECIFICATIONS

Calibrated for:

- ASA indexes from 0.2 to 6400
- f-stops from f-1 to f-45
- Seconds from 1/1000 to 8 secs.
- Movies at 16, 32 and 64 fps
- EV or LVS and Polaroid
- Ft. Lamberts: 0.1 to 6400
(0.03 candles per sq. ft.)

Power Supply:

- Miniature mercury batteries of approximately 2 year life

Photosensitive Crystal:

- CADMIUM SULFIDE CELL
GUARANTEED FOR LIFE

Dimensions:

- 7" long — 3" high — 2" wide

Weight:

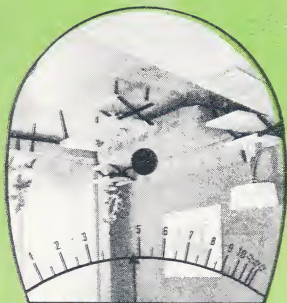
- 12 ounces net, approx.
3 lbs. shipping wgt., approx.

FOR SALE BY



INSIDE THE FOTO-METER

You See



1. The scene
2. The photosensitive spot
3. The meter reading

The light reading indicated is taken from the area in the scene covered by the photosensitive spot. The photosensitive spot covers an area of only 4° of the scene. (Approximately 4 feet at a distance of 60 feet.) The meter scale is divided into 13 full lense stops, marked at half stops. Meter readings are converted to lense settings on the easy-to-read calibration dials for the different films.

SPECIFICATIONS

Dimensions: 5½ x 2½ x 2 inches
Weight: 10 ounces
Field of view: 20°
Field of measurement: 4°
Battery life approximately 2 years
(Mercury cell)

FOTOMATIC CORPORATION

Setting New Standards
IN
PHOTOGRAPHIC EXCELLENCE!

ANNOUNCING!

THE NEW
Foto-Meter
MODEL 92

A PRECISION EXPOSURE METER
TO ANSWER THE NEEDS
OF EVERY MODERN
PHOTOGRAPHER

FOTO-METER

Model 92

THE AMAZING NEW SUPER EXPOSURE METER FOR PERFECT NEGATIVES

Price \$49.95
Including Case

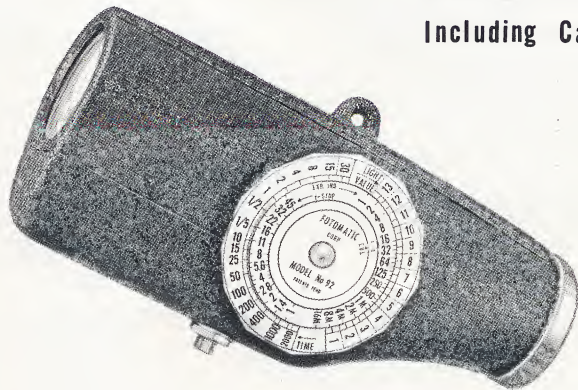
The ideal light meter for any photographer. An entirely new principal of measurement, making it possible to carefully analyze small areas in each scene or subject, and give exposure determinations with exacting precision. Not just another meter to give an educated guess. Perfect for color and available light shots.

The Foto-Meter is a monocular-type optical instrument which measures reflected light from small areas of the scene from any position or angle. All measurements may be taken from the camera position, making it unnecessary to walk up to your subjects to analyze the scene. Readings are taken at the same reflection angles as the camera lense receives them. Background and foreground lighting does not effect the accuracy of your exposure determinations.

THE MOST MODERN METER
FOR THE MODERN PHOTOGRAPHER

CALIBRATION

ASA Indexes from 1.0 to 16,000
F-stops from 1 to 45
Lense speeds from 30 to 1/2000 sec.
Movies at 8, 16, 24, 32, 48, 64 and 128 Fr/Sec
LVS from 1 to 18
Polaroid on LVS scale



FEATURES

- SUPER ACCURACY
- QUICK AND EASY TO USE
- SMALL, LIGHT, AND RUGGED
- NO EXTRANEIOUS LIGHT EFFECTS
- NO BOOSTER NECESSARY FOR LOW LIGHT
- NO SPECIAL ADJUSTMENTS OR ATTACHMENTS
- NO EXTINCTION ADJUSTMENT--ALL ELECTRONIC
- CALIBRATED TO 1/2 LENSE STOPS
- SENSITIVE ELEMENT LIFETIME GUARANTEED
- ALL ALUMINUM CONSTRUCTION
- SHOCKPROOF METER MOVEMENT
- RUBBER EYE GUARD

New!



MODEL **4000**

ELECTRONIC
PHOTRIC TIMER

Patent Numbers: 2,668,474—2,952,780—others pending

Automatic, Photocell-Controlled Densitometer / Timer Combination

TAKES THE GUESSWORK OUT OF ENLARGER EXPOSURES

**AT LAST! DEPENDABLE
DARKROOM AUTOMATION**



4000 automatically controls
enlarger exposure

4000 delivers assured uniform
print quality

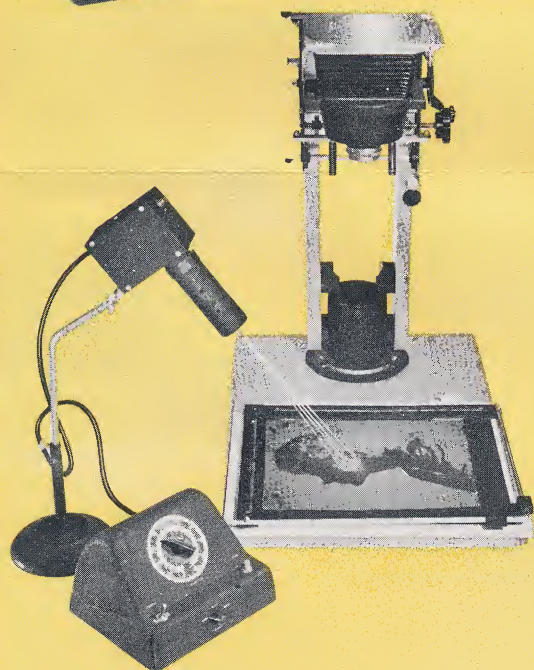
4000 eliminates test
printing waste

4000 pays for itself in
time and paper savings

4000 correctly controls exposure
for white light color printing

4000 works with
any enlarger

**MAXIMUM DEPENDABILITY and QUALITY
AT MINIMUM COST ECONOMY!**



TO PRINT . . . JUST SET PAPER SELECTOR
DIAL, AIM THE PHOTOCELL, AND PUSH THE
TIME BUTTON . . .
THAT'S ALL THERE IS TO IT!

NOW! Add Built In Control to Your Darkroom

The remarkable new Model 4000 PHOTRIC TIMER helps you print more efficiently than ever before. Manufactured to the highest standards of quality and accuracy, the Model 4000 is a highly sensitive photoelectric measuring device that accurately measures light from any selected area of your print *and automatically times your printing exposure!*

Manual controls allow you to dodge and vignette easily. There's no doubt about it . . . the Model 4000 PHOTRIC TIMER is one of the most versatile enlarging timers available. It definitely takes the guesswork out of projection printing and opens new doors to photographic quality.

MORE DETAILS ON OTHER SIDE ►

FC model 4000 PHOTRIC TIMER pays for itself!

Automatically delivers uniform quality prints regardless of operator's skill or negative densities

It's easy to operate . . . just set the paper selector dial, focus your negative, aim the photo-cell and you're ready to print. Your exposure is timed electronically and precisely. Your enlarger is automatically turned off when the correct exposure time has elapsed.

These important new features make the Model 4000 PHOTRIC TIMER the biggest darkroom value ever:

- Interchangeable optical system in the photocell head permits "reading" smaller areas in the print.
- Increased sensitivity and increased range of paper settings provide you with one of the most versatile timers available for black and white *plus* white light color printing.
- New remote outlets for controlling "Time" and "Focus" add to the convenience and ease of operation.



Standard Model . . .

ACCESSORIES:

Luxo Arm for photocell head support . . .
Extra power relay for loads up to 2000 watts
Attachment for operation with automatic easels

SPECIFICATIONS:

100 to 130 Volts, 60 cycle AC only
400 watt enlarger capacity
Power required when idle—15 watts
Voltage controlled for 5 volt line fluctuations
Controls exposures 2 seconds to 4 minutes
Area controlled by photocell:
Maximum—3 x 4 inches
Minimum— $\frac{1}{8} \times \frac{5}{32}$ inches
Dimensions: Control box Head
Height 6 inches 5 inches
Width 7 inches 3 inches
Length 8 inches 4 inches
Net weight: 9 lbs.—Shipping weight: 20 lbs.
Complete instructions furnished.
Steel and cast aluminum construction.
Black wrinkle finish



with Luxo Arm . . .

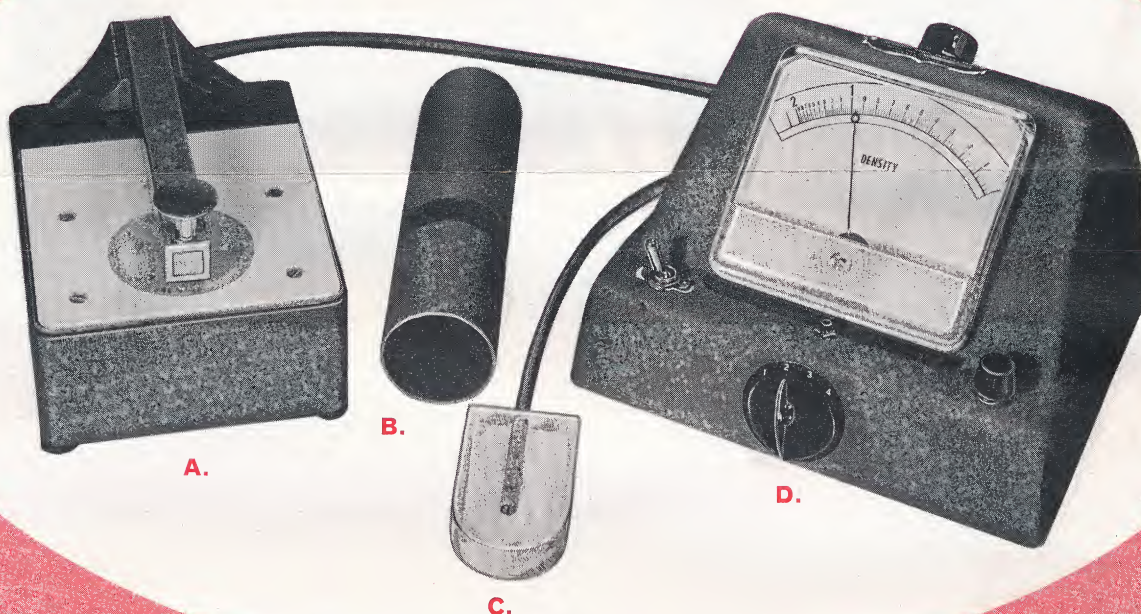
FC FOTOMATIC CORPORATION
3141 W. 10TH STREET, INDIANAPOLIS 22, INDIANA

FOR SALE BY:



model MR-2

FOTOMATIC DENSITOMETER & LIGHT METER



COMPONENTS

A. TRANSMISSION ATTACHMENT—This attachment consists of a cabinet containing a light source for illumination of a spot on the negative 0.040 inch in diameter; a luminescent deck area for viewing the negative; a hinged arm containing a cadmium sulfide cell permanently mounted and a button positioned to turn off the deck illumination when the cell is lowered into its measuring position. The transmission illumination is voltage controlled to assure constant accuracy.

B. REFLECTANCE ATTACHMENT—Consists of a lens tube with an objective lens in one end and a ground glass reticle positioned at the focal length of the lens. A slot is cut in the tube behind the reticle to accommodate the standard photocell probe. When the probe is inserted in the tube the photocell will measure small sections of the ground glass image. This makes the meter a reflectance type light meter. Some of the uses are for monitoring face lighting to maintain standard light values in portrait work; to measure lighting on a copy board for even and consistent illumination or for checking contrast ranges in commercial studio shooting. A handy attachment for all around lighting checks.

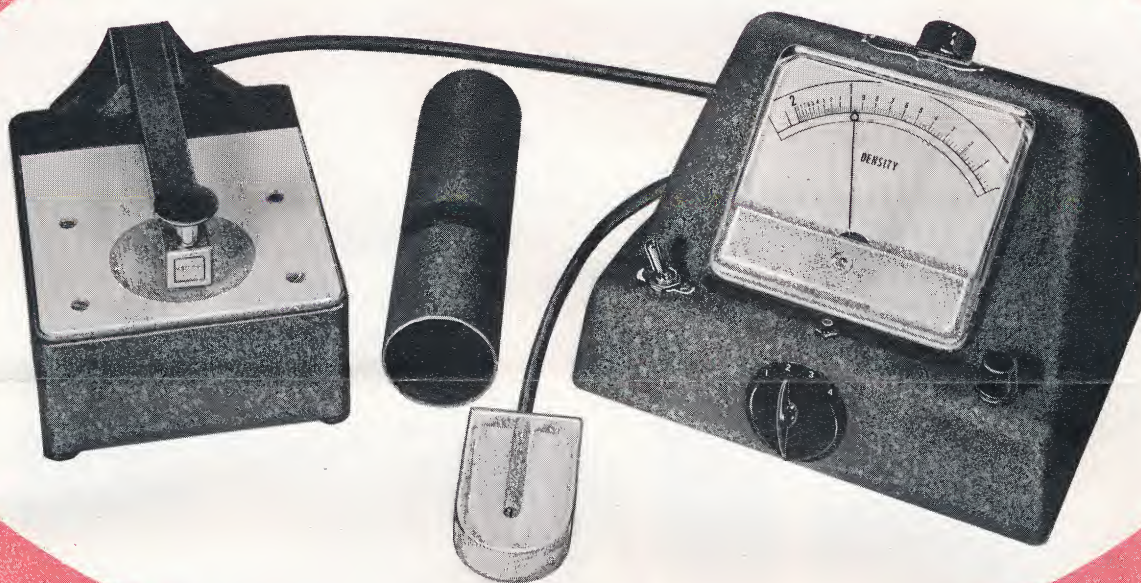
C. INCIDENT LIGHT PROBE—The light probe consists of a cadmium sulfide cell encased in a lucite plastic block. A convenient size for easy handling. The cell is enclosed in a small glass vacuum tube to insure protection from effects of high temperature and humidity. The sensitive crystal area is $\frac{1}{16} \times \frac{5}{32}$ inches. Capable of reading optical density to a threshold value of approximately 0.01 microlumens.

D. METER—POWER SUPPLY UNIT—The control unit is to be used with all attachments and employs simplified circuitry to insure long life and maximum stability. Uses no tubes, transistors or amplifying components which can drift with age or change linearity. The complete circuit is powered by a voltage stabilized transformer. Features a $4\frac{1}{2}$ inch wide-face meter calibrated to cover a density range of 0 to 4.00 in increments of 0.02. May be read accurately to increments of 0.01.

A high-sensitivity light measuring instrument, built to rigid ASA specifications, employing the most recent developments in the cadmium sulfide photoresistors. For use in Professional Photography, Graphic Arts, Industrial Laboratories and Medical and Research Laboratories to determine exposure times, aperture settings, density values, contrast ranges and maintaining light constants.

... the use of the cadmium sulfide cell insures

- ★ **SAVINGS**—giving the user the highest sensitivity per dollar.
- ★ **RELIABILITY**—much greater reliability and stability than vacuum tubes or transistors.
- ★ **DEPENDABILITY**—no amplifying system to require maintenance.
- ★ **VERSATILITY**—limited only by the ingenuity of the operator.
- ★ **STABILITY**—uses no tubes, transistors or amplifying components which can drift with age or cause a change in linearity.



model MR-2 DENSITOMETER & LIGHT METER

precision measurement of transmitted, reflected and incident light

The MR-2 Densitometer requires no warm-up period since there is no amplifying system, tubes or transistors to require a heating period. The light probe is connected to the meter by a simple plug-in socket. The only controls are the "Range Switch" to adjust the desired sensitivity level and a calibration knob to check calibration periodically and an on-off switch. The entire circuit is powered by a voltage stabilized transformer to insure perfect stability under varying line voltage conditions.

LIST PRICE

SPECIFICATIONS

	Incident Probe	Transmission Attachment	Reflectance Attachment
Area of Measurement	$\frac{1}{16} \times \frac{5}{32}$ In.	0.040 In.	3 Degrees
Dimensions—Height	$\frac{3}{4}$ In.	3 In.	
Width	$1\frac{1}{2}$ In.	5 In.	2 In. Diameter
Length	3 In.	7 In.	8 In.

Meter Increments 0.02—can be read to 0.01 density
 Incident Probe threshold value approximately 0.01 microlumens
 Net Weight—10 lbs.—Shipping Weight—16 lbs.
 Complete instructions furnished
 Cast aluminum construction

F C FOTOMATIC CORPORATION
 3141 W. 10TH STREET, INDIANAPOLIS 22, INDIANA

FOR SALE BY



FOTOMATIC CORPORATION

3141 WEST 10TH STREET • INDIANAPOLIS 22, INDIANA • MELROSE 9-3403

Dear Mr. Photographer:

You, as a Professional Photographer, will be especially interested in the FOTOMATIC precision equipment described in the enclosed new literature! These photocell controlled devices may bring some questions to your mind. If so please write us . . . we have had many years of experience in designing light controls and measurement instruments, and can help you solve your application engineering problems. Our technical help is at your disposal.

If you're a Portrait man, you can make substantial savings in your darkroom, using our Timers. If you're a Commercial or Industrial Photographer, you can obtain much closer negative control by using our FOTOMATIC Foto-Meters. If you do photo-finishing, a FOTOMATIC Timer "fills the bill" for odd orders of 5 x 7, 8 x 10 and 11 x 14 prints. The versatile FOTOMATIC Densitometer with its wide sensitivity range is perfect for your camera room, your darkroom, your copy camera, perfect for microscope adaption and numerous laboratory applications. Let us help you with your questions on exposure control and light value measurement!

Enclosed is a trial order card entitling you to 15 days free use of any of our precision instruments. Fill it out and give it to your dealer or send us the card, specifying the dealer of your choice, and the equipment will be in your hands very soon. See for yourself how many profitable applications there are for FOTOMATIC precision products . . . no obligation of any kind on your part.

To bring FOTOMATIC products to you in less time, to serve you better, and provide your dealer with better knowledge of our equipment, we are keeping photo dealers completely informed about FOTOMATIC precision products.

Try FOTOMATIC precision instruments . . . FILL OUT THE ENCLOSED CARD TODAY!

Sincerely yours,

FOTOMATIC CORPORATION

E.C. Rogers, Jr.
President



FOTOMATIC CORPORATION

3141 WEST 10TH STREET • INDIANAPOLIS 22, INDIANA • MELROSE 9-3403

COLOR PRINTING WITH PHOTRIC TIMERS

We have conducted extensive tests on our photoelectric Timers in conjunction with color printing and have proven them to be an excellent control instrument for printing color negatives
-----Worth their weight in Gold!!!!-----

The Model 4000 Photric Timer will correctly control exposures for the white light printing method. It will print correct exposures for filter pack changes, lense aperture changes, density changes and size changes. This applies to all of our Timers produced and sold in the past as well as new ones. The method-----Aim the photocell to control from equal neutral tones and by trial and error find the dial setting for a correct exposure on a standard negative. The Timer will automatically give correct exposure times for different negatives at the established dial setting. Darker and lighter neutral tones may be produced at will by aiming at darker and lighter neutral areas or raising and lowering the control dial.

The Model 4000 Photric Timer will give excellent results with white light but does not have the sensitivity for tri-color printing. On special order, it can be supplied with a photocell and adjustment for tri-color. It is necessary to use a line voltage control transformer with the Model 4000 Timer for color printing.

FOTOMATIC CORPORATION

3141 W. 10TH STREET

INDIANAPOLIS, INDIANA, 46222

FOTO-METERS

(The Model Z-4 and the Model 92)

IN ANSWER TO QUESTIONS MOST COMMONLY ASK ABOUT OUR TWO FOTO-METERS

The main differences in the two models are as follows:

- (1) The Z-4 measures light levels approximately 4 lense stops lower than the Model 92.
- (2) The Z-4 covers a measurement angle of 2° and the 92 covers about $3\frac{1}{2}^{\circ}$.
- (3) The Z-4 is approximately twice the size and weight and cost of the 92.
- (4) The objective lense in the Z-4 is twice the diameter of the lense in the 92. Therefore, the Z-4 image is about 4 times as bright as the 92 image.
- (5) The Z-4 has an optically clear image superimposed on a clear reticle and the image is in sharp focus at distances from two feet to infinity. The Model 92 image is superimposed on a ground glass reticle and is magnified six times by the eyepiece in the instrument. The 92 image is in clear focus from approximately ten feet to infinity.
- (6) The user can adjust the basic calibration of the Z-4 for special applications. The 92 is a sealed unit to be adjusted only by the factory.
- (7) The Z-4 uses three batteries, two mercury batteries and one carbon battery. The 92 uses only one miniature mercury cell. Battery life is extremely long and replacement cost is very reasonable. All batteries are readily available through electronic suppliers and hearing aid stores.

The Model Z-4 is a super-precision exposure meter designed to fill the requirements of the unusual and most critical type of photography and measure light values far below those of the average exposure meter.

The Model 92 is designed to cover the working range of most films and the same light range as other high-grade exposure meters (including boosters). The Model 92 covers this light range with much greater accuracy and precision than heretofore possible with any other reflection-type meter. The optical measuring system employed adds tremendous versatility and accuracy to the usefulness of the instrument.

FOTOMATIC CORPORATION

3141 West Tenth Street

INDIANAPOLIS 22, IND.



FOTOMATIC CORPORATION

3141 WEST 10TH STREET • INDIANAPOLIS 22, INDIANA • MELROSE 9-3403

PRICE LIST

Effective

August 1, 1964

All prices F.O.B. Indianapolis, Indiana. Timers and Densitometers shipped EXPRESS ONLY for safety in shipping. Foto-Meters and accessories shipped Parcel Post unless otherwise specified. Prices are subject to change without notice.

	LIST PRICE
DENSITOMETER, Model MR-2	
Meter-power supply unit.... (Required for all attach.)	\$172.00
Transmission attachment....	98.00
Incident probe.....	20.00
Reflectance tube.....	10.00
PHOTRIC TIMER, Model 4000.....	199.50
PHOTRIC TIMER, Model 4000..... With Luxo Arm instead of standard base.	211.00
FOTO-METER, Model 92, with case.....	49.95
FOTO-METER, Model HSZ-5, w/case	187.50
FOTO-METER, Model Z-4, with case.....	104.95
ACCESSORIES	
Luxo Arm, with bracket.....	20.00
Base and arm for Model 4000.....	8.50
By-Pass relay for 2500 watt capacity for Photric Timers.....	29.00
Automatic easel attachment for Photric Timers	29.00

15 DAY FREE TRIAL REQUEST

SOLD BY

Please send me the equipment I have checked below for a FREE 15 day trial. I understand there is no obligation to buy for 15 days. After the trial period I agree to either purchase the equipment or return it to the factory.

SHIP TO: Name _____

Address _____

City & State _____

☐ Foto - Meter, Z-4

☐ Foto - Meter, 92

☐ Photric Timer, Model 4000 With Luxo Arm

☐ Photric Timer, Model 4000 With Standard Base

☐ Densitometer & Light Meter,

(Prices Do Not Include Express Charges.)

FOTOMATIC CORPORATION

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INDIANAPOLIS 22, INDIANA

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Will Be Paid
by
Addressee

No
Postage Stamp
Necessary
If Mailed in the
United States

BUSINESS REPLY CARD

FIRST CLASS PERMIT NO. 2823, INDIANAPOLIS, INDIANA

Fotomatic Corporation

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